

sub  
D17  
C1  
1. (Three Times Amended) A method of detecting one of  
electromagnetic radiation in the optical range and nuclear  
radiation, comprising the steps of:

exposing a microcantilever to a non-contact source of  
electromagnetic radiation, the microcantilever having at least  
one physical property affected by electromagnetic radiation;

monitoring electromagnetic radiation-induced changes in the  
at least one physical property; and

correlating changes in the at least one physical property to  
a measure of the electromagnetic radiation.

sub  
D37  
C2  
17. (Three Times Amended) An apparatus for detecting one  
of electromagnetic radiation in the optical range and nuclear  
radiation, comprising:

a radiation sensor having an element exposed to a non-  
contact source of electromagnetic radiation, the sensor having at  
least one physical property affected by the electromagnetic  
radiation;

means for monitoring electromagnetic radiation-induced  
changes in the at least one physical property of the sensor; and

means for correlating changes in the at least one physical  
property to a measure of the electromagnetic radiation.